Polymer Bulletin

© Springer-Verlag 1990

Author Index Volume 24 (1990)

Acosta JL, Rodríguez M, Linares A, Jurado JR: Conductivity study on semicrystalline and amorphous polymers filled with conduction additives 87
Adès D, see Ngbilo E
Aechtner S, see Nuyken O
Afanas'eva MV, see Dubrovskii SA
Akahane T, Takeuchi S, Minakata A: Conductimetric titration of polyelectrolytes having sulfate and carboxyl groups 437
Aoki K, see Tamaki T
Arima I, see Tamaki T
Arndt K-F, see Licea-Claverie A
Arnold M, Frank W, Reinhold G: Anionic copolymerization of butadiene and styryl-terminated polystyrene macromonomers 1
Avadhani CV, Vernekar SP: Synthesis and characterization of alternating copolyimides containing aliphatic spacers 487

Baharifar A, see Mormann W
Barson CA, Bevington JC: Effects of some unsaturated carbonyl compounds upon the formation of end-groups during the polymerization of methyl methacrylate initiated by benzoyl peroxide 313
Bartulín J, Parra M, Ramirez A, Zunza H: Synthesis of resins with crown ethers units as anchor groups 129
Bassi MB, Padias AB, Hall HK Jr.: The hydrolytic polymerization of ε-caprolactone by triphenyltin acetate 227
Baysal BM, see Çataligil HH
Bevington JC, see Barson CA
Biswas M, see Majumdar A
Bouchal K, see Ilavský M

Caille D, Pascault JP, Tighzert L: Reaction of a diepoxide with a diisocyanate in bulk. I. Use of a tertiary amine catalyst 23
Caille D, Pascault JP, Tighzert L: Reaction of a diepoxide with a diisocyanate in bulk. II. Use of an imidazole or a blocked isocyante catalysts 31
Cantow H-J, see Kempf S
Cantwell WJ, see Jar P-Y
Çatalgil HH, Baysal BM: New polyurethanes with conjugated triple bonds 271
Chang EP: New models for the prediction of the relaxation behavior of vinyl polymers with bulky side groups and α-methyl groups in the primary transition region 405
Chang N-S, see Tsai H-B
Chevrot C, see Ngbilo E
Cho I, Kim Y-W: Extraction of cholesterol by non-ionic cholesterol-based polymeric vesicles 545
Chu H-H, see Wang H-H
Ciobanu C, see Diaconu I
Cormier L, see Lucotte G

Davies P, see Jar P-Y
Deffieux A, see Liu HQ
Delfort B, see Lucotte G
Diaconu I, Ciobanu C, Simionescu CrI: Properties of urethane elastomers. IV. Depolarization currents from poly(azourethaneurea) 573
Drujon X, Hall HK Jr.: A convenient route to a new bicyclobutane monomer: Isopropyl 1-bicyclobutanecarboxylate 181
Dubrovskii SA, Afanas'eva MV, Lagutina MA, Kazanskii KS: Comprehensive characterization of superabsorbent polymer hydrogels 107

Dunsch L, see Petr A
Duschek T, Schneider HA: Improvement of the dispersion degree in incompatible polystyrene/poly(n-butylmethacrylate)blends by the graft poly(2,6-dimethyl-1,4-phenylene oxide) on poly(n-butylmethacrylate 317

Equiazábal JI, Iruin JJ: Polyacrylate/polyamide 6 blends: A calorimetric study 641
Eisenberg A, Rinaudo M: Polyelectrolytes and ionomers 671
Espiard P, Mark JE, Guyot A: A novel technique for preparing organophilic silica by water-in-oil microemulsions 173

Feng X, Han P, Wu J, Sun Y: Copolymerization of tetrahydrofuran and propylene oxide 507
Fietier I, Le Borgne A, Spassky N: Synthesis of functional polyesters derived from serine 349
Fleš D, see Ranogajec F
Fleš DD, see Ranogajec F
Franbourg A, Rietsch F: Influence of the melt temperature on the thermoplastics crystallization process 445
François J, see Troung ND
Frank W, see Arnold M
Fu K, see Jin P

Gnanou Y, see Klein JW
Gronski W, see Kempf S
Guyot A, see Espiard P

Hadjichristidis N, see Karandinos A
Hagiwara T, Nakazawa S, Hamana H, Narita T: Novel block copolymers containing poly(phenylmaleimide) segments: Block copolymerization of N-phenylmaleimide onto poly(oxyethylene) and poly(butadiene) 299
Hall HK Jr., see Padias AB
Hall HK Jr., see Voit BI
Hall HK Jr., see Way T-F
Hall HK Jr., see Drujon X
Hallensleben ML, Wibowo TS, Wurm H: Influence of 2,2,6,6-tetramethylpiperidine and of 2,2,6,6-tetramethylpiperidine-N-oxide on radically induced styrene polymerization 59
Hamana H, see Hagiwara T
Han P, see Feng X
Heck J, see Percec V
Hedrick JL: Imide-aryl ether benzothiazole copolymers 371
Hempel E, see Kresse H
Higashimura T, see Ishihama Y
Hinrichsen G, Lux F: Crystallization kinetics of highly filled glass fibre/polyamide 6 composites 79
Hirai A, see Kawarada H
Horkay F, see Zrínyi M
Hrouz J, see Ilavský M
Hu AT, see Tsai H-B
Huang B, see Wang J
Huang Y, Petermann J: Spherulite growth of polybutene-1 in a thermal gradient 649
Hummel K, Paschen A: Introduction of cyclooctadienyl substituents into 1,4-polybutadiene 391

Ichimura K, see Tamaki T
Ihm S-K, see Park C-Y
Iida T, see Kawarada H

Polymer Bulletin

© Springer-Verlag 1990

Author Index Volume 24 (1990)

Acosta JL, Rodríguez M, Linares A, Jurado JR: Conductivity study on semicrystalline and amorphous polymers filled with conduction additives 87
Adès D, see Ngbilo E
Aechtner S, see Nuyken O
Afanas'eva MV, see Dubrovskii SA
Akahane T, Takeuchi S, Minakata A: Conductimetric titration of polyelectrolytes having sulfate and carboxyl groups 437
Aoki K, see Tamaki T
Arima I, see Tamaki T
Arndt K-F, see Licea-Claverie A
Arnold M, Frank W, Reinhold G: Anionic copolymerization of butadiene and styryl-terminated polystyrene macromonomers 1
Avadhani CV, Vernekar SP: Synthesis and characterization of alternating copolyimides containing aliphatic spacers 487

Baharifar A, see Mormann W
Barson CA, Bevington JC: Effects of some unsaturated carbonyl compounds upon the formation of end-groups during the polymerization of methyl methacrylate initiated by benzoyl peroxide 313
Bartulín J, Parra M, Ramirez A, Zunza H: Synthesis of resins with crown ethers units as anchor groups 129
Bassi MB, Padias AB, Hall HK Jr.: The hydrolytic polymerization of ε-caprolactone by triphenyltin acetate 227
Baysal BM, see Çataligil HH
Bevington JC, see Barson CA
Biswas M, see Majumdar A
Bouchal K, see Ilavský M

Caille D, Pascault JP, Tighzert L: Reaction of a diepoxide with a diisocyanate in bulk. I. Use of a tertiary amine catalyst 23
Caille D, Pascault JP, Tighzert L: Reaction of a diepoxide with a diisocyanate in bulk. II. Use of an imidazole or a blocked isocyante catalysts 31
Cantow H-J, see Kempf S
Cantwell WJ, see Jar P-Y
Çatalgil HH, Baysal BM: New polyurethanes with conjugated triple bonds 271
Chang EP: New models for the prediction of the relaxation behavior of vinyl polymers with bulky side groups and α-methyl groups in the primary transition region 405
Chang N-S, see Tsai H-B
Chevrot C, see Ngbilo E
Cho I, Kim Y-W: Extraction of cholesterol by non-ionic cholesterol-based polymeric vesicles 545
Chu H-H, see Wang H-H
Ciobanu C, see Diaconu I
Cormier L, see Lucotte G

Davies P, see Jar P-Y
Deffieux A, see Liu HQ
Delfort B, see Lucotte G
Diaconu I, Ciobanu C, Simionescu CrI: Properties of urethane elastomers. IV. Depolarization currents from poly(azourethaneurea) 573
Drujon X, Hall HK Jr.: A convenient route to a new bicyclobutane monomer: Isopropyl 1-bicyclobutanecarboxylate 181
Dubrovskii SA, Afanas'eva MV, Lagutina MA, Kazanskii KS: Comprehensive characterization of superabsorbent polymer hydrogels 107

Dunsch L, see Petr A
Duschek T, Schneider HA: Improvement of the dispersion degree in incompatible polystyrene/poly(n-butylmethacrylate)blends by the graft poly(2,6-dimethyl-1,4-phenylene oxide) on poly(n-butylmethacrylate 317

Equiazábal JI, Iruin JJ: Polyacrylate/polyamide 6 blends: A calorimetric study 641
Eisenberg A, Rinaudo M: Polyelectrolytes and ionomers 671
Espiard P, Mark JE, Guyot A: A novel technique for preparing organophilic silica by water-in-oil microemulsions 173

Feng X, Han P, Wu J, Sun Y: Copolymerization of tetrahydrofuran and propylene oxide 507
Fietier I, Le Borgne A, Spassky N: Synthesis of functional polyesters derived from serine 349
Fleš D, see Ranogajec F
Fleš DD, see Ranogajec F
Franbourg A, Rietsch F: Influence of the melt temperature on the thermoplastics crystallization process 445
François J, see Troung ND
Frank W, see Arnold M
Fu K, see Jin P

Gnanou Y, see Klein JW
Gronski W, see Kempf S
Guyot A, see Espiard P

Hadjichristidis N, see Karandinos A
Hagiwara T, Nakazawa S, Hamana H, Narita T: Novel block copolymers containing poly(phenylmaleimide) segments: Block copolymerization of N-phenylmaleimide onto poly(oxyethylene) and poly(butadiene) 299
Hall HK Jr., see Padias AB
Hall HK Jr., see Voit BI
Hall HK Jr., see Way T-F
Hall HK Jr., see Drujon X
Hallensleben ML, Wibowo TS, Wurm H: Influence of 2,2,6,6-tetramethylpiperidine and of 2,2,6,6-tetramethylpiperidine-N-oxide on radically induced styrene polymerization 59
Hamana H, see Hagiwara T
Han P, see Feng X
Heck J, see Percec V
Hedrick JL: Imide-aryl ether benzothiazole copolymers 371
Hempel E, see Kresse H
Higashimura T, see Ishihama Y
Hinrichsen G, Lux F: Crystallization kinetics of highly filled glass fibre/polyamide 6 composites 79
Hirai A, see Kawarada H
Horkay F, see Zrínyi M
Hrouz J, see Ilavský M
Hu AT, see Tsai H-B
Huang B, see Wang J
Huang Y, Petermann J: Spherulite growth of polybutene-1 in a thermal gradient 649
Hummel K, Paschen A: Introduction of cyclooctadienyl substituents into 1,4-polybutadiene 391

Ichimura K, see Tamaki T
Ihm S-K, see Park C-Y
Iida T, see Kawarada H

Ikeda K, see Kunugi S
Ilavský M, Bouchal K, Hrouz J: Phase transition in swollen gels. 15. The effect of the amide group in the side chain with a positive charge on the collapse of poly(acrylamide) networks 619
Iruin JJ, see Eguiazábal JI
Ishihama Y, Sawamoto M, Higashimura T: Living cationic polymerization of styrene by the 1-phenylethyl chloride/thin tetrachloride initiating system in the presence of tetra-n-butylammonium chloride 201

Jäckel M, see Licea-Claverie A
Jar P-Y, Kausch HH, Cantwell WJ, Davies P, Richard H: The effect of annealing on the short and long term behavior of PEEK 657
Jehličková A, see Vláčil F
Jin P, Shan J, Lu C, Zhou Y, Fu K: Laser photocatalytic polymerization of phenylacetylene 135
Jung HM, see Min KE
Jurado JR, see Acosta JL

Kahovec J, see Vláčil F
Kajiyama T, Teraya T, Takahara A: Effect of end group of side chains on surface properties of diblock copolymers 333
Kannan P, see Kishore K
Karandinos A, Mays JW, Hadjichristidis N: Solution properties and characteristic ratio of near-monodisperse poly(tert-butyl methacrylate) 251
Karger-Kocsis J: Dynamic fracture mechanics of a RIM polyamide block copolymer reinforced with glass strand mat 341
Kasihara H, see Takigawa T
Katime I, Rabalgliati FM, López Carrasquero F: Synthesis and thermodynamics properties of poly(ethylene oxide) prepared in diphenylzinc-water 589
Kausch HH, see Jar P-Y
Kawarada H, Hirai A, Odani H, Iida T, Nakajima T: Structure characterization of alginate and conformational behaviors of various alkali-metal alginates in solution 551
Kazanskii KS, see Dubrovskii SA
Keita G, Ricard A: Continuous swelling or collapse of chemically crosslinked gel of polyvinylalcohol by borate complexation 627
Keita G, Ricard A: Phase diagram of borate - PVA system: Sol-gel transition and demixtion 633
Kempf S, Rotter HW, Magonov SN, Gronski W, Cantow H-J: Structure analysis of conductive polymer systems: Poly-4-vinylpyridine and poly(butadiene-b-4-vinylpyridine with 7,7',8,8'-tetraxyanoquinodimethane 325
Kennedy JP, see Nemes S
Kereszti H, see Rabek JF
Khan IM: An absolute measure for stereoblock and heterotactic polymers 305
Kim Y-W, see Cho I
Kishore K, Kannan P: Synthesis of novel flame retardant polyamidophosphate esters from aromatic diols and N-arylphosphoramidic dichlorides 481
Klein JW, Gnanou Y, Rempp P: Synthesis and characterization of high molecular weight poly(tert.butyl acrylate) 39
Klepko VV, see Mel'nichenko YuB
Kremer F, see Kresse H
Kresse H, Hempel E, Kuschel F, Kremer F: Dielectric measurements on liquid crystalline polymers derived from PETP 93
Kříž J, see Rotschova J
Kröner H, see Nuyken O
Kubota T, see Matsumoto A
Kunugi S, Ikeda K, Nakashima T, Yamada H: Enzyme electrode based on gold-plated polyester cloth. 2. NAD and NADH regeneration by diaphorase-immobilized electrode 247
Kuschel F, see Kresse H

Lagutina MA, see Dubrovskii SA
Le Borgne A, see Fietier I
Lee C, see Tsai H-B
Lee DH, see Min KE
Lee Y, see Storey RF
Lex J, see Müllen K
Li T: Photopolymerization of methyl methacrylate initiated by benzophenone/aromatic tertiary amines 397
Li W, see Wen Z
Licea-Claverie A, Müller M, Jäckel M, Arndt K-F: Low temperature thermal conductivity of diolmodified epoxies 421
Linares A, see Acosta JL
Liu HQ, Deffieux A, Sigwalt P: Oligomerization of 1-hexene with bimetallic catalysts based on titanium or zirconium derivatives and organoaluminum compounds 355
Lobko TA, see Mel'nichenko YuB
López Carrasquero F, see Katime I
López F, see Márquez J
Lu C, see Jin P
Lucas EF, see Oliveira CMF
Lucki J, see Rabek JF
Lucotte G, Cormier L, Delfort B: Ethynyl terminated ethers. Synthesis and thermal characterisation of 2,2 bis (ethynyl-4-phenylcarbonyl-4-phenoxy-4-phenyl) propane and 2,2 bis (ethynyl-4-phenylsulfonyl-4-phenoxy-4-phenyl) propane 577
Lukáš R, Toman L: A new family of telechelic copolymers. I. Initiation system activated-PVC/BCl_3 277
Lukáš R, Toman L: A new family of telechelic copolymers. II. Initiation system PVC/BCl_3 285
Lux F, see Hinrichsen G

Macosko CW, see Ryan AJ
Magonov SN, see Kempf S
Mahajan SS, Sarwade BD, Maldar NN: Synthesis and characterization of aromatic-alipathic polyamides containing tetraphenylthiophene units into the backbone 143
Majumdar A, Biswas M: Thermal stability, dielectric and conductivity characteristics of 9,10-anthracenediol-anhydride polycondensates 565
Maldar NN, see Mahajan SS
Mark JE, see Espiard P
Márquez J, López F, Márquez O, Parra H: Electrochemically controlled molecular weight of polystyrene production 451
Márquez O, see Márquez J
Masuda T, see Takigawa T
Matsumoto A, Kubota T, Otsu T: Synthesis and characterization of poly(N-tert-alkylmaleimide)s. 1. Radical polymerization of N-tert-butylmaleimide leading to a less-flexible poly(substituted methylene) 459
Matsumoto A, see Otsu T
Mays JW, see Karandinos A
Medjahdi G, see Truong ND
Meijs GF, Rizzardo E, Thang SH: Chain transfer activity of some activated allylic compounds 501
Mel'nichenko YuB, Klepko VV, Lobko TH, Shilov VV: Friction coefficient in gelatin and polyacrylamide gels 123
Min KE, Lee DH, Jung HM: Miscibility of polycarbonate with poly(methyl metha-crylate-co-cyclohexyl methacrylate) 221
Minakata A, see Akahane T
Mormann W, Baharifar A: 4,4'-diisocyanatoazobenzene a mesogen for liquid crystalline polyurethanes? 413
Mormann W, see Ryan AJ
Müllen K, Lex J, Schulz RC, Walter F: An ionene with spirane structure (spiroionene) 263
Müller M, see Licea-Claverie A

Nakajima A, see Kawarada H
Nakajima A, see Nakanishi E

Nakamura S, see Saegusa Y
Nakanishi E, Sato H, Nakajima A: Sedimentation study on the binding of fibrinogen or of antithrombin III with acidic polysaccharides including heparin 429
Nakashima T, see Kunugi S
Nakazawa S, see Hagiwara T
Narita T, see Hagiwara T
Nemes S, Peng KL, Wilczek L, Kennedy JP: Oxyethylation and carbonation of telechelic polyisobutylene anions 187
Ngbilo E, Adès D, Chevrot C, Siove A: Synthesis and characterization of poly (N-butyl-3,6-carbazole-diyl). A new soluble electroactive material 17
Nuyken O, Kröner H, Aechtner S: Living cationic polymerization of isobutyl vinyl ether, 2. Telechelics by controlled chain termination and their application to the synthesis of blockcopolymers 513

Odani H, see Kawarada H
Oliveira CMF, Lucas EF: Graft copolymers of poly(methyl methacrylate) backbone and poly(propylene oxide-b-ethylene oxide)branches 363
Otsu T, Matsumoto A, Tatsumi A: Synthesis and characterization of poly(N-tert-alkylmaleimide)s. 2. Synthesis of high molecular weight polymaleimide by thermolysis of poly(N-tert-alkylmaleimide)s of 467
Otsu T, see Matsumoto A
Otsu T, Yang J-Z: Radical polymerization of N-substituted citraconimides as polymerizable 1,1,2-trisubstituted ethylenes 475
Ozeki Y, see Saegusa Y

Paschen A, see Hummel K
Padias AB, Hall HK Jr.: Synthesis of potentially piezoelectric polymers containing tetracyanocyclobutyl side groups 195
Padias AB, see Bassi MB
Padias AB, see Voit BI
Padias AB, see Way T-F
Pang D, see Wang J
Park C-Y, Ihm S-K: Percolation analysis on free radical linear polymerization with instantaneous initiation 539
Parra H, see Márquez J
Parra M, see Bartulín J
Pascault JP, see Caille D
Pascault JP, Williams RJJ: Relationships between glass transition temperature and conversion 115
Peng KL, see Nemes S
Percec V, Heck J: Liquid crystalline polymers containing mesogenic units based on half-disc and rod-like moieties. 2. Synthesis and characterization of poly {2-[3,4,5-tri[p-(n-dodecan-1-yloxy)benzyloxy] benzoate]-7-[p-11-undecan-1-yloxy)benzonate]naphtalene] methyl siloxane} 255
Percec V, Tsuda Y: Liquid crystalline polyethers based on conformational isomerism. 13. Copolyethers based on 1-/4-hydroxyphenyl)-2-(2-methyl-4-hydroxy-phenyl) ethane, 1,8-dibromooctane and nonmesogenic bishenols 9
Percec V, Wang JH: A radical-anion mechanism for the phase transfer catalyzed depolymerization of poly(2,6-dimethyl-1,4-phenylene oxide) 63
Percec V, Wang JH: Phase tranfer catalyzed depolmerization of poly(2,6-dimethyl-1,4-phenylene oxide) in the presence of either 2,4,6-trimethylphenol or 4-tert-butyl-2,6-dimethylphenol 71
Percec V, Wang JH: Synthesis of α,w-bis(2,6-dimethylphenol)-poly(2,6-dimethyl -1,4-phenylene oxide) by phase transfer catalyzed polymeriztion of 4-bromo-2,6-dimethylphenol in the presence of 2,2-di (4-hydroxy-3,5-dimethylphenyl)propane 493
Petermann J, see Huang Y
Petr A, Dunsch L: Nitroso labeling in electron-irradiated LDPE 607
Pospíšil J, see Rotschova J

Rabalgliati FM, see Katime I
Rabek JF, Lucki J, Kereszti H: Forced crystallization of poly(1,5-di-oxapene-2-one)-Fe(III) chloride complex onto NaCl surface by polymerizing pyrrole 529
Ramírez A, see Bartulín J
Ranogajec F, Fleš DD, Vuković R, Fleš D: High conversion polymerization of α-methylstyrene with maleimide at different monomer-to-monomer ratios in the feed 597
Reinhold G, see Arnold M
Rempp P, see Klein JW
Ricard A, see Keita G
Richard H, see Jar P-Y
Rietsch F, see Franbourg A
Rinaudo M, see Eisenberg A
Rizzardo E, see Meijs GF
Rodríguez M, see Acosta JL
Rotschova J, Kříž J, Pospíšil J: Antioxidants and stabilizers. CXIV. A new transformation product of processing antioxidant 2,6-ditert-butyl-4-methylphenol in the presence of metal ions 309
Rotter HW, see Kempf S
Ryan AJ, Vaidya UR, Mormann W, Macosko CW: Networks by fast epoxy polymerization 521

Saegusa Y, Ozeki Y, Nakamura S: Anionic ring-opening polymerization of 2-phenyl-1,3,4-oxadiazolin-5-one and conversion of the resulting polymer, N-benzamido-1-nylon, to N-amino-1-nylon 583
Sakuragi M, see Tamaki T
Sarazin D, see Truong ND
Sarwade BD, see Mahajan SS
Sato H, see Nakanishi E
Sawamoto M, see Ishihama Y
Schneider HA, see Duschek T
Schulz RC, see Müllen K
Shan J, see Jin P
Shen D, see Wen Z
Shilov VV, see Mel' nichenko YuB
Sigwalt P, see Liu HQ
Simionescu CrI, see Diaconu I
Siove A, see Ngbilo E
Spassky N, see Fietier I
Stepto RFT: Gel-gel reaction in RA_f and RA_2 + RB_f polymerisations 53
Storey RF, Lee Y: Sulfonation of chlorine-containing polymers: Sulfonation of various model tert-alkyl chlorides 165
Sun Y, see Feng X

Takahara A, see Kajiyama T
Takeuchi S, see Akahane T
Takigawa T, Kasihara H, Masuda T: Swelling and mechanical properties of polyvinylalcohol hydrogels 613
Tamaki T, Sakuragi M, Ichimura K, Aoki K, Arima I: The photochromism of nitrospiropyran included in γ-cyclodextrin 559
Tatsumi A, see Ostu T
Teraya T, see Kajiyama T
Thang SH, see Meijs GF
Tighzert L, see Caille D
Toman L, see Lukáš R
Trumbo DL: Copolymerization of 5-vinyl-1,3-benzodioxole with n-butyl acrylate and methyl methacrylate 385
Trumbo DL: A re-evaluation of the reactivity ratios of 3-vinyl thiopene in copolymerization with butyl acrylate and methyl methacrylate 215
Trumbo DL: Synthesis of polymers from 1,3-bishydroxymethyl-2-imidazolidone 379
Truong ND, Medjahdi G, Sarazin D, François J: Effect of the carboxylate group distribution on potentiometric titration of acrylamide-acrylic acid copolymers 101

Tsai H-B, Lee C, Chang N-S, Hu AT: Thermotropic copolyesters modified with nonmesogenic rigid groups 293
Tsuda Y, see Percec V

Uhrová M, see Vláčil F

Vaidya UR, see Ryan AJ
Vancso GJ: Orientation factors and orientation distribution function of anisotropic polymer glasses determined by X-ray scattering: A comparison of different evaluation methods 233
Vernekar SP, see Avadhani CV
Vláčil F, Kahovec J, Jehličková A, Uhrová M: A metal sorbent with an unbound complexing agent: polyethylenime - bead cellulose 533
Voit BI, Padias AB, Hall HK, Jr.: Initiation of cationic polymerization by tetramethylene zwitterions from tetracyanocyclobutanes 45
Vuković R, see Ranogajec F

Walter F, see Müllen K
Wang H-H, Chu H-H: The stabilization effect of mixed-surfactants in the emulsion polymerization of methyl methacrylate 207
Wang J, Pang D, Huang B: Phase diagrams of polyethylene blends by Raman spectroscopy 241
Wang JH, see Percec V
Way T-F, Hall HK Jr.: Novel copolymerizations of methyl vinylidene cyanide with electron-rich vinyl monomers 151
Way T-F, Padias AB, Hall HK Jr.: Silyl sulfonate approach to the synthesis of a block copolydimethylsiloxane-polydioxepane 157
Wen Z, Li W, Shen D: Specroscopic study of lyotropic liquid crystal polymer in H_2SO_4 603
Wibowo TS, see Hallensleben ML
Wilczek L, see Nemes S
Williams RJJ, see Pascault JP
Wu J, see Feng X
Wurm H, see Hallensleben ML

Yamada H, see Kunugi S
Yang J-Z, see Otsu T

Zhou Y, see Jin P
Zrínyi M, Horkay F: Is a collapse phenomenon predicted by the constrained junction fluctuation network theory? 665
Zunza H, see Bartulín J

Subject Index Volume 24 (1990)

Acrylamide-acrylic acid copolymers 101
Acrylamide 107, 619
Acrylic acid 107
Acrylic esters 39
N-Acrylphosphoramidic dichlorides 481
Additives, conducting 87
Aerosils 173
Agar 437
Alginate 551
Alginates, alkali-metal 551
Alginic acid 437
Alginic acid 551
Alkyl sulfonic acids 165
N-Alkylcitraconimides 475
N-Alkylmaleimide 459, 467
Allylchlorodimethylsilane 157
Allylic compounds, activated 501
N-Amino-1-nylon 583
N-tert-Amylmaleimide 467
Anchor groups, crown ethers 129
Anionic copolymerization 1
Anisotropic polymer glasses 233
Anisotropy 233
Anthracene-based polymer systems 565
9,10-Anthracene-DIOL-anhydride polycondensates 565
Antioxidants 309
Antithrombin III 429
Automobile industry 341
Average degree of polymerization 539
Azobenzene 413

Bead cellulose 533
N-Benzamido-1-nylon 583
Benzo-13-crown-4 129
Benzo-9-crown-3 129
Benzophenoetetracarboxylic dianhydride 487
Benzoyl peroxide 313
Benzoyloxy radical 313
BHI 379
Bicyclobutane monomer 181
Bicyclobutanes, bridgehead substituted 181
α-omega-Bis(2,6-dimethylphenol)--poly(2,6-dimethyl-1,4-phenylene oxide) 493
2,2-Bis(ethyl-4-phenylcarbonyl-4--phenoxy-4-phenyl) propane 577
2,2-Bis(ethyl-4-phenylsulfonyl-4--phenoxy-4-phenyl) propane 577
1,3-Bishydroxymethyl-2-imidazolidone 379
Bisphenol-A polycarbonate 221
Bisphenols, nonmesogenic 9
Blends 221
-, miscible 221
-, polyethylene 233
Block copolydimethylsiloxane-polydioxepane 157
Block copolymers 1, 299, 513
Borate-PVA, phase diagram 633
4-Bromo-2,6-dimethylphenol 493

Butadeiene styryl-terminated
polystyrene 1
n-Butyl acrylate 385
tert-n-Butylammonium chloride 201
N-tert-Butylmaleimide 459, 467

eta-Caprolactone, triphenyltin acetate 227
Carbonylcompounds, unsaturated 313
Catechol 385
Chain transfer activity 501
Chain transfer agents 501
Charge transfer complexes 325
Chlorine-containing polymers, sulfonation 165
Chlorodimethylsilane 157
Cholesterol, extraction 545
Cholesterol-based polymeric vescicles 545
Citraconimides, N-substituted 475
Cloud point 221
Collapse phenomenon 665
Conductimetric titration 437
Conducting composites, polymeric 87
Conductive polymer systems 325
Conductivity, semicrystalline
and amorphous polymers 87
Conformational isomerism 9
Conjugated triple bonds 271
Constrained junction fluctuation
network model 665
Copolydioxepane-polydimethylsiloxane 157
Copolyesters 293
-, thermotropic 293
Copolyethers 9
Copolyimides, alternating 487
Crown ethers 129
Crystallization kinetics,
semicrystalline polymers 79
Crystallization kinetics 445
Cyclobutane adduct of N-vinylcarbazole 45
1,5-Cyclooctadiene 391
Cyclosiloxanes 157

Dehydrochlorination 165
Depolymerization, phase transfer catalyzed 63
Depolymerization, phase transfer catalyzed 71
Dextran sulfate 437
2,2-Di(4-hydroxy-3,5-dimethylphenyl)
propane 493
Diaphorase-immobilized electrode 247
Dibenzoylethylene 313
Diblock copolymers 333, 363
1,8-Dibromooctane 9
Dielectric measurements 93
Dielectrics 371
Diepoxide 23, 31
Diisocyanate 23, 31
4,4'-Diisocyanatoazobenzene 413
Diisopropyl 3,3-dimethoxycyclo
butane-1-1-dicarboxylate 181
Diolmodified epoxies 421
1,3-Dioxepane 157
Diphenylmethane-4,4'-diisocyanate 573
2,6-Ditert-butyl-4-methylphenol 309

Electroactive material, soluble 17
Electrolytes 451
Electron-rich monomers 157
Electron-rich vinyl monomers 151
Electropolymerization, styrene 451
Emulsion polymerization, methyl
methacrylate 207
Enzyme electrode 247
Enzymes, immobilizing 247
Epoxies, diolmodified 421
Epoxy copolymers 23, 31
Epoxy polymerization, networks by fast 521
Epoxy resins, micro RIM 521
Epoxy-diamine systems 115

Error-in-variables method 215
Ethers, ethynyl end-capped 577
Ethylene oxide 589
Ethylenes, 1,1,2-trisubstituted 475
Ethylene terminated ethers 577
Exchange resins 129

Fast-curing epoxy system 521
Fibrinogen-heparin systems 429
Fibrinogen 429
Fire-proof additives 481
Fire-retardant compounds 481
Flame retardants 481
Flammability 481
Fracture mechanical data, dynamic 341
Free radical linear polymerization,
instantaneous initiation 539
Friction coefficient 123
Functional polyesters 349

Gel macromolecules 123
Gel-collapse transition 665
Gel-gel reaction 52
Gels 123, 613, 627, 633
-, collapse of neutral 665
-, phase transition in swollen 619
-, reversible 633
Glass fibre/polyamide 6 composites 79
Glass strand mat 341
Glass transition temperature 23, 115
Glasses, anisotropic polymer 233
L-Gluronate 551
Gold-plated polyester cloth 247
Graft copolymers 1
Graft copolymers 333, 363

Heparin 429, 437
Heterotactic polymers 305
1-Hexene, oligomerization 355
High-temperature polymers 371
High-temperature stable polymers 143
Homopolyesters 293
Homopolyimides 487
Hydrogels, poly(vinylalcohol) 613
Hydrogels, superabsorbent polymer 107
Hydrogels 627
Hydrophilic-polymer networks 107
(1-4-Hydroxyphenyl)-2-
(2-methyl-4-hydroxyphenyl)ethane 9

Imide-aryl ether benzothiazole
copolymers 371
Initiation system, new 277, 285
Ionene, spirane structure 263
Ionomers 165, 671
Isobutyl vinyl ether,
living cationic polymerization 513
Isobutylene, bulk polymerization 285
Isobutylene/BCl3 277 3ind
Isobutylene 277
Isomerization, conformational 9
Isopropyl 1-bicyclobutanecarboxylate 181

Ladder type experiments 215
Laser photocatalytic polymerization 135
LDPE, nitroso labeling in
electron-irradiated 607
LiCl-associated tert.butyl
acrylate polymerization 39
Linear least squares techniques 215
Liquid crystalline polymers 255
Liquid crystalline polyurethanes 413
LLPDE polymerization 355
Lyotropic liquid crystal
polymer in H_2SO_4 603

Macromonomers, butadiene/styryl-terminated
polystyrene 1
Macromonomers 363

Maleimides 459, 597
-, N-substituted 459
D-Mannuronate 551
Mesogenic units 255
Mesogenic units 9
Mesogens, phasmidic 255
Mesomorphic properties 413
Metal sorbent 533
N,N'-Methylene-bis-acrylamide 107
Methyl methacrylate, emulsion polymerization 207
Methyl methacrylate, photopolymerization 397
Methyl methacrylate 313, 385, 501
α-Methylmaleimides 475
α-Methylstyrene, maleimide 597
Methylvinylidene cyanids 151
Microelectrics industry 371
Microemulsion systems 173
Miscible 221

NAD+ and NADH regeneration 247
Networks, epoxy resins 521
-, swelling and mechanical behaviour 619
Nitroso labeling method 607
Nitrospiropyran, photochromism 559
Nonmesogenic units 9
Novel polymer 529
Nylon 6 641

N-tert-Octylmaleimide 467
Olefin oligomers 355
Olefins, free radical addition 501
Organotin carboxylate 227
Organotin compounds 227
Organotrialkoxysilane 173
Orientation distribution function 233
Orientation factors 233
4,4'-Oxydianaline 371

PA 6/glass fibre composite 79
PEEK, injection moulded 657
PEO-Fe(III)chloride complexes 529
Percolation analysis, free radical polymerization 539
Percolation theory 539
PETP 93
Phase transfer catalyzed depolymerization 63, 71
Phase transfer catalyzed polymerization 63, 71
Phase-transfer catalysts 129
Phasmidic liquid crystals 255
Phasmids 255
2-Phenyl-1,3,4-oxadiazolin-5-one, anionic ring-opening polymerization 583
Phenylacetylene, laser photocatalytic polymerization 135
Phenylacetylene 135
N-Phenylcitraconimides 475
1-Phenylethyl chloride/tin tetrachloride 201
N-Phenylmaleimide 299
N-Phenylmaleimides 467
Photocatalytic polymerization, laser-initiated 135
Photochemical processes 59
Photochromism, organic 559
Photopolymerization, methyl methacrylate 397
Piezoelectric materials 151
Piezoelectric polymers 195
Polyacrylamide 101
Polyacrylamide gels 123
Poly(acrylamide) networks 619
Poly(acrylic acid) 39, 437
Polyamide 6 79
Polyamide block copolymer 341
Polyamides, aromatic-aliphatic 143

Polyamidophosphate esters 481
Poly α-amino-acids 349
Polyarylate/polyamide 6 blends 641
Polyarylate 641
Poly(1,5-di-oxepane-2-one) 529
Poly(2,6-dimethyl-1,4-phenylene oxide) 63, 71, 317
Poly(2-[3,4,5-tri]p-(n-dodecan-1-yloxy)-benzyloxy/benzoate[-7-]p-11-undecan-1-yloxy)-benzoate/naphathalene/methyl siloxane) 255
Poly(alkyl methacrylate)s 251
Poly(azourethaneurea) 573
Poly(butadiene) 299
Poly(butadiene-b-4-vinylpyridine) 325
Poly(butadiene-g-styrene) 1
Poly(crown ether) 129
Poly(ε-caprolactam) 641
Poly(ether-ether-ketone) 445
Poly(ethylene adipate) glycol 573
Poly(ethylene oxide) 589
Poly(ethylene terephthalate) 93
Poly(ethyleneglycol) monomethyl ether 333
Poly(methyl methacrylate) 221, 363
Poly(methyl methacrylate-co-cyclohexyl methacrylate) 221
Poly(N-butyl-3,6-carbazolediyl) 17
Poly(n-butylmethacrylate) 317
Poly(N-isopropylmaleimides) 475
Poly(N-tert-alkylmaleimide)s 459, 462
Poly(oxoethylene) 299
Poly(oxymethylene) 445
Poly(phenylmaleimide) 299
Poly(propylene oxide-b-ethylene oxide) 363
Poly(substituted methylene) 459
Poly(tert-butyl methacrylate), near-monodisperse 251
Poly(tert.butyl acrylate) 39
Poly(tetramethylene oxide) glycol 507
Poly(vinyl acetate) networks 665
Poly(vinyl ethers) 513
Poly-4-vinylpyridine 325
Poly-dimethylsiloxane 157
Poly-ether-ether ketone, injection-moulded 657
Polybenzamide in H_2SO_4 603
1,4-Polybutadiene, cyclooctadienyl substituents 391
Polybutene-1, spherulite growth 649
Polycarbonate 221
Polycondensates 565
Polydimehtylsiloxane arylsulfonates 157
Polydioxepane 157
Polydispersity index 539
Polyelectrolytes 263, 437, 583, 671
Polyester cloth 247
Polyesters, new 349
Polyethers, liquid crystalline 9
Polyethylene blends 241
Polyethylene, irradiated 607
Polyethylenimine, branched 533
Polyethylenimine-bead cellulose 533
Polyisobutylene anions, telechelic 187
Polymaleimide 459, 467
Polymer glasses 233
Polymethacrylates 251
Polyolefins, stabilizer 309
Polyphosphate esters 481
Polypyrrole 529
Polysaccharides 551
-, acidic 429
-, viscous 429
Polyserine-ester 349
Polysiloxane 157
Polystyrene, stretched atactic 233
Polystyrene/butadiene macromonomers 1
Polystyrene/poly(n-butylmethacrylate) blends 317
Polystyrene 201, 451

Polyurethanes, conjugated triple bonds 271
Polyurethanes, liquid crystalline 413
-, polyesters-based 573
Polyvinylalcohol hydrogels 613
Polyvinylalcohol, borate complexation 627
-, borax 633
-, dialdehyde 627
-, swelling of chemically crosslinked 627
Potentiometric titration 101, 107
PVA hydrogels 613
PVC/BCl$_3$ 277, 285
Pyromellitic dianhydride 487
Pyrrole, vapour phase polymerization 529

RAf and RA2 + RBf polymerizations 52
Resins 129
RIM polyamide block copolymer 341

Self-gelling polymers 363
Semi-crystalline polymers 445
Serine, functional polyesters 349
Silica particles containing vinyl groups 173
Silica, organophilic 173
Silyl ester macromer 157
Silyl methanesulfonate 157
Silyl sulfonate approach 157
Sodium tert-butoxide/n-butyl lithium 1
Sorbents, chelating 533
Spirobenzopyran 559
Spiroionene 263
Stabilizers 59, 309
Star-block copolymers 1
Stereoblock polymers 305
Styrene polymerization, radically induced 59
Styrene, living cationic polymerization 201
Superabsorbent hydrogels 107
Supergels 107
Surfactants 207
Synthetic vescicular systems 545

Telechelic copolymers 277, 285
Telechelic polyisobutylene anions 187
Telechelics, controlled synthesis 513

Tert-alkyl-chlorides, sulfonation 165
Tert-butyl acrylate 39
Tetracyanocyclobutanes 45
7,7',8,8'-Tetracyanoquinodimethane 325
Tetraethoxysilane 173
Tetrahydrofuran/propylene oxide 507
Tetramethylene zwitterion 45
2,2,6,6-Tetramethylpiperidine-N-oxide 59
2,2,6,6-Tetramethylpiperidine 59
Tetraphenylthiophene 143
Thermal conductivity, low-temperature 421
Thermal stability 143, 371, 467, 487, 565
Thermoplastics crystallization 445
Thermosetting materials, heat resistant 577
Thermotropic copolyesters 293
Tin tetra-chloride 201
Tree-like structure of network 52
Trialkoxy-organosilane 173
Trialkylsilyl esters 157
Trimethoxysilylpropyl methacrylate 173
1',3',3'-Trimethyl-6-nitrospiro-
[2H,1-benzopyran-2,2'-indoline] 559
Triphenyltin acetate 227
Triple bonds, conjugated 271
1,1,2-Trisubstituted ethylenes 475
N-Tritylated serine β-lactones 349

Ultraviolet laser, phenylacetylene 135
Urethane elastomers 573
Urethane polymers 271
UV absorbers 59

Vescicles, polymeric 545
Vinyl ether-TCNE cyclobutane adducts 45
Vinyl ethers 45
Vinyl polymers, bulky side groups 405
-, primary transition region 405
-, relaxation behaviour 405
3-Vinyl thiophene 215
5-Vinyl-1,3-benzodioxole 385
N-Vinylcarbazole 45
Vinylidene cyanids 151

Zwitterionic tetramethylene 45